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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NO. 038440-0105



Applicant: Jun KITAKADO

Title: ADAPTIVE ARRAY RADIO COMMUNICATION
APPARATUS, ANTENNA CORRELATION DISPLAY
METHOD, ANTENNA CORRELATION ADJUSTMENT
METHOD, ANTENNA CORRELATION DISPLAY
PROGRAM, AND ANTENNA CORRELATION
ADJUSTMENT PROGRAM

Appl. No.: 10/779,622

Filing Date: 02/18/2004

Examiner: Timory, Kabir A.

Art Unit: 2609

Confirmation 9103
Number:

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicant in order to comply with Applicant's duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicant does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(c), after the mailing date of the first Office Action on the merits (but before the mailing date of a final Office Action or a Notice of Allowance), and within three (3) months of the mailing date of the foreign Office Action. Accordingly, a statement or fee is required. A statement is provided below.

RELEVANCE OF EACH DOCUMENT

The documents listed on the attached PTO/SB/08 were cited as being relevant during the prosecution of the corresponding Japanese application. These documents were cited in a Japanese Office Action dated June 19, 2007, whereby a partial translation of that Office Action is provided below. Please note that JP 10-154952 mentioned in the Office Action was cited to the PTO in an IDS filed on November 20, 2006, and JP 06-351023 mentioned in the Office Action was cited to the PTO in an IDS filed on September 18, 2006, and thus copies of those references are not being submitted herewith.

“Reference 1 discloses an adaptive array radio communication apparatus having a plurality of antennas, and based on the amplitude and phase of signals of a plurality of streams received at each of the plurality of antennas, estimating a correlation value between signals of said plurality of streams, and selecting a combination of antennas to reduce the correlation value.

As disclosed in Fig. 8 of Reference 2, a movable antenna that can have the angle altered is well known.

The invention of Reference 1 is directed to altering the correlation value between reception signals by selecting a combination of antennas from a plurality of antennas.

Providing a display to display the reception quality [is described in] Reference 3.

- (1) Japanese Patent Laying Open No. 10-154952.
- (2) Japanese Patent Laying Open No. 2000-049672.
- (3) Japanese Patent Laying Open No. 06-351023.”

An English translation of the foreign-language documents are not readily available; however, English language abstracts are attached. The absence of such translation does not relieve the PTO from its duty to consider the submitted foreign-language document (37 CFR §1.98 and MPEP §609).

Applicant's statements regarding the Japanese office action are based on a translation that applicant's representative obtained. These statements should in no way be considered as an agreement by applicants, with or an admission of, what is asserted in the Japanese office action.

Applicant respectfully requests that each of the listed documents be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

STATEMENT

The undersigned hereby states in accordance with 37 CFR §1.97(e)(1) that each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to filing of this Statement.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 19-0741.

Respectfully submitted,

September 12, 2007

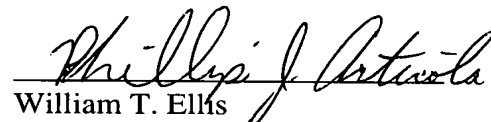
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: September 12, 2007 (use as many sheets as necessary)				Complete if Known	
				Application Number	10/779,622
				Filing Date	02/18/2004
				First Named Inventor	Jun KITAKADO
				Group Art Unit	2631
				Examiner Name	Timory, Kabir A.
				Attorney Docket Number	038440-0105
Sheet	1	of	1		

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 PATENT & TRADEMARK OFFICE

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Application Document		Name of Patentee or Applicant of Cited Document	Filing Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Serial Number	Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	D1	JP	2000-049672		SHARP CORP.	02-18-2000		Abst.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.